



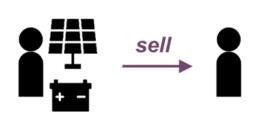


USE CASE EXAMPLES	CORE CAPABILITIES ENABLED BY DIGITAL TRANSFORMATION						
	Uncover Invisible Insights	Predict the Future	Optimize	Upskill Humans	Automate	Make Informatio n Accessible	IMPORTANCE TO THE ENERGY TRANSITION
Planning & Design							
Wind farm layout optimization							Moderate
Renewables production forecasting							High
Distribution system simulation and modeling							Moderate
Operations							
Robotic inspection of PV and wind							Moderate
Active network management							High
PV tracking optimization							Moderate
PdM for grid infrastructure							Low
Customer Engagement							
Home energy monitoring							Low
P2P energy trading							High
Energy preferences in P2P energy trading							Low



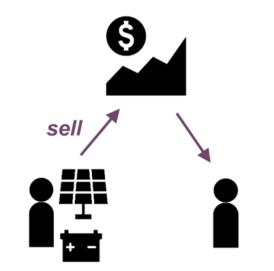
P2P Energy Trading

share your energy





DER Market





Virtual Power Plant

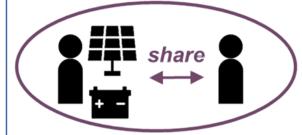




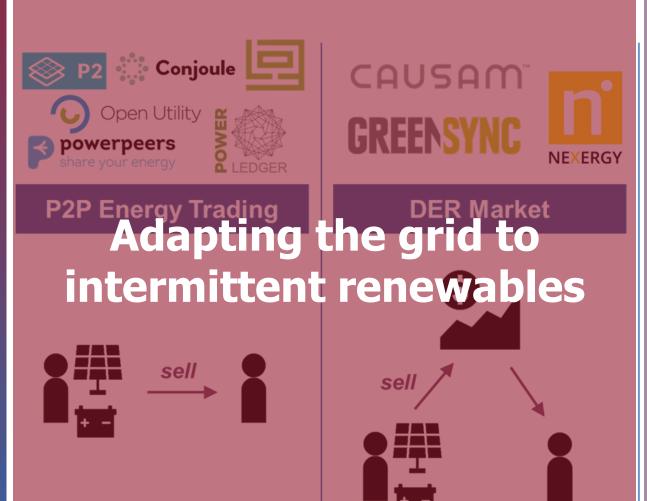
******* REGALGRID

Community Energy



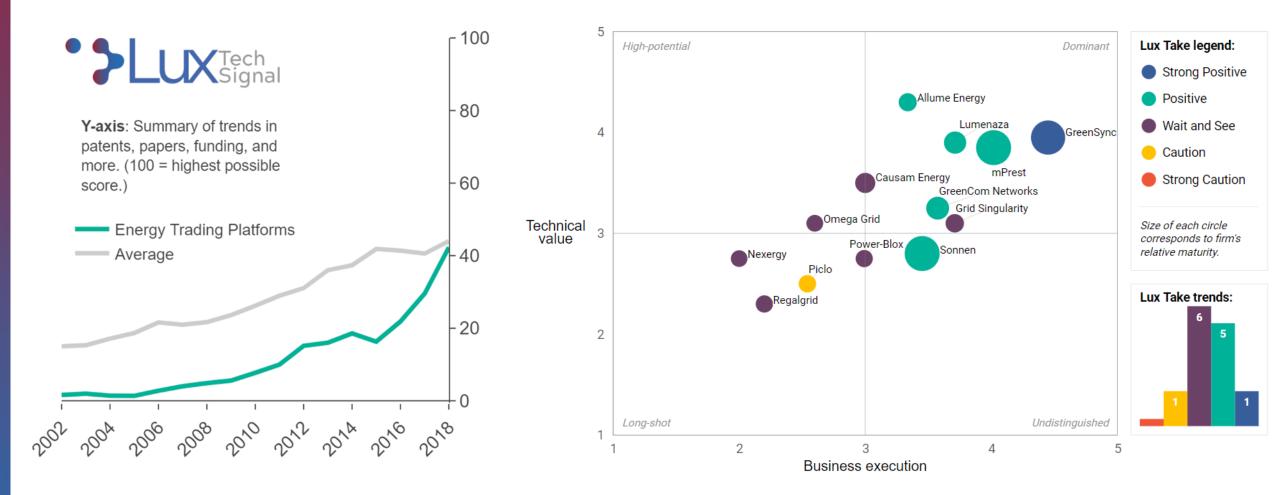
















Average importance 🕕

Vattenfall acquires energy trading software developer Senfal

Vattenfall acquired a 100% stake in Senfal, a developer of energy trading software nowered by artificial intelligence

aiming to service industr optimizing the flexibility oparticipation. With the st interested in tools to help developers that can level benefit grid operators as

For the original news arti

Acquisition

more. (100



Future Grid More...
February 13, 2019 | Edit

Equinor acquires energy trading company

Equinor finalized the acquisition of Danish power and gas trading company Danske Commodities Equinor will leverage DC's footprint, which spans 37 European countries, and the company's expe optimization of energy flows to manage Equinor's renewable assets. Similarly to other oil and gas interest will continue to expand outside the oil and gas space as it prepares itself to become mor solutions provider with a larger renewables portfolio, which will include not only wind power asse



Average importance 📵

Power Ledger begins first Asian trial of peer-to-peer energy marketplace

Power Ledger recently announced that it set up a peer-to-peer (P2P) energy trading marketplace in Bangkok, allowing electricity from solar modules rated for 635 kW to be traded within a group of businesses and apartments. In order to enable this pilot – one of the first of its kind in Asia – the startup partnered with Bangkok's municipal utility. As is common with energy trading schemes, bringing the right stakeholders onboard is crucial for success. Power Ledger claims 31 other projects lined up, but with a total capacity of only 2 MW, and expansion into other regions of SE Asia will be slow. Clients should take this announcement cautiously; it might be an indicator of P2P potential in Asia, but the market is still at early stages.

Grid Singularity

For the original news article, click here 2.

Project

Further reading from Lux Research: Power Ledger, Metropolitan Electricity Authority



Max Halik
Energy Storage More...
December 10, 2018 | Edit

LO3 Energy announces partnership with eMotorWerks/E allow energy trading for EVs and microgrids

eMotorWerks and LO3 recently announced a partnership to integrate the latter's Exergy platform JuiceNet EV charging platform. An initial project will allow owners of electric vehicles to purchas microgrids; Exergy will manage the price signals and peer-to-peer matching, while JuiceNet will c systems involved. This is a predictable move from eMotorWerks as part of the Enel X brand, whice management services to Enel's customers. At larger scale, this could mean reduced electricity of customers charging their vehicles and better payments for microgrid operators compared to feer situation for customer engagement and savings. For the original news article, click here ...

Partnership

Further reading from Lux Research: Enel, eM



Very important 🕕



Size of each circle corresponds to firm's maturity.

Very important ①

Tepco Frontier Partners invests in peer-to-peer energy trading and online electricity marketplace platform developer Electrify

Nomega Grid

Power-Blox

Tepco's strategic investment comes right after the alpha test of Electrify's energy trading platform, called Synergy. Electrify is targeting Singapore initially, but it plans to expand to other countries afterward, including Japan; a collaboration opportunity with Tepco will put Electrify's plan on the right track. Today, Electrify is taking advantage of Singapore's new open energy market to help citizens navigate the available energy retail options; after the launch of Synergy (planned for early 2019), consumers will also be able to purchase electricity from peers (electricity prosumers). Other Asian countries following the energy liberalization trend are likely to look at Singapore to shape their own future open energy markets.

For the original news article, click here 2.

Strategy

Investment

Further reading from Lux Research: Electrify, Tepco Frontier Partners



ke trends:



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